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You may include a copy of the broadest and or relevan	and 1989 a contin only on
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STRUCTURE FILE UPDATES: HIGHEST RN 139341-64-3
DICTIONARY FILE UPDATES: 29 FEB 92 (920229/ED) HIGHEST RN 139311-38-9
     ANSWER 1 OF 1 COPYRIGHT 1992 ACS
L1
RN
     90566-53-3
     Androsta-1,4-diene-17-carbothioic acid, 6,9-difluoro-11,17-dihydroxy-
CN
     16-methyl-3-oxo-, S-(fluoromethyl) ester,
     (6.alpha., 11.beta., 16.alpha., 17.alpha.) - (9CI) (CA INDEX NAME)
CN
     Fluticasone
MF
     C22 H27 F3 O4 S
LC
    CA, PHAR, WHO
STE 4:6A, 11B, 16A, 17A. ANDROST
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                            Me
                                  ....OH
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     c:
                   F.
             : C . . C
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                  .C.
                   F.
2 REFERENCES IN FILE CA (1967 TO DATE)
=> d 12
     ANSWER 1 OF 1 COPYRIGHT 1992 ACS
L2
RN
     80474-14-2
CN
     Androsta-1,4-diene-17-carbothioic acid, 6,9-difluoro-11-hydroxy-16-
     methyl-3-oxo-17-(1-oxopropoxy)-, S-(fluoromethyl) ester,
     (6.alpha., 11.beta., 16.alpha., 17.alpha.) - (9CI) (CA INDEX NAME)
CN
     Fluticasone propionate
MF
     C25 H31 F3 O5 S
CI
     COM
LC
     BIOSIS, CA, CIN, MEDLINE, PHAR
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FILE 'REGISTRY' ENTERED AT 12:47:20 ON 06 MAR 92

USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT

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     C.
               :C.
                        .C
          С
                   С
0:
2 REFERENCES IN FILE CA (1967 TO DATE)
= > d 13
     ANSWER 1 OF 1 COPYRIGHT 1992 ACS
L3
     136112-02-2
RN
     Androsta-1,4-diene-17-carbothioic acid, 6,9-difluoro-11-hydroxy-16-
CN
     methyl-3-oxo-17-(1-oxopropoxy)-, S-(fluoromethyl) ester,
     (6.alpha., 11.beta., 16.alpha., 17.alpha.)-, mixt. with
     (.+-.)-4-hydroxy-.alpha.1-[[[6-(4-phenylbutoxy)hexyl]amino]methyl]-
     1,3-benzenedimethanol 1-hydroxy-2-naphthalenylcarboxylate (salt)
     (9CI) (CA INDEX NAME)
     2-Naphthalenecarboxylic acid, 1-hydroxy-, compd. with
CN
     (.+-.)-4-hydroxy-.alpha.1-[[[6-(4-pheny)butoxy)hexyl]amino]methyl]-
     1,3-benzenedimethanol, mixt. contg. (9CI)
CN
     1,3-Benzenedimethanol, 4-hydroxy-.alpha.1-[[[6-(4-
     phenylbutoxy)hexyl]amino]methyl]-, (.+-.)-, 1-hydroxy-2-
     naphthalenecarboxylate (salt), mixt. contg. (9CI)
     Fluticasone propionate mixt. with salmeterol 1-hydroxy-2-naphthoate
CN
MF
     C25 H37 N O4 . C25 H31 F3 O5 S . C11 H8 O3
SR
     CA
LC
     CA
     CM
          1
     CRN 80474-14-2
     CMF C25 H31 F3 05 S
     CSTE 4:6A, 11B, 16A, 17A. ANDROST
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    CM 2
    CRN 94749-08-3
    CMF C25 H37 N O4 . C11 H8 O3
        CM 3
        CRN 89365-50-4
        CMF C25 H37 N O4
        CSTE 3: (+-)
                   OH
                . CH .....CH2.....NH.....(CH2)6 .....0...(CH2)4.
     C: . C.
    . C : . C
     : C.
          CH2.....OH
Page 1-A
.......Ph
Page 1-B
        CM
            4
        CRN 86-48-6
        CMF C11 H8 03
            OH
        .C: . CO2H
  :C.
        С
                С
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. . с
                                              CA 115(14) 142260b
    С
1 REFERENCES IN FILE CA (1967 TO DATE)
                 CA 136112-02-2
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=> fil ca
FILE 'CA' ENTERED AT 12:49:40 ON 06 MAR 92
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
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FILE COVERS 1967 - 21 FEB 92 (920221/ED) VOL 116 ISS 08.
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abstract graphic structures. The AB format DOES NOT display structure
diagrams.
=> fil reg
FILE 'REGISTRY' ENTERED AT 12:51:12 ON 06 MAR 92
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 1992 AMERICAN CHEMICAL SOCIETY (ACS)
STRUCTURE FILE UPDATES: HIGHEST RN 139341-64-3
DICTIONARY FILE UPDATES: 29 FEB 92 (920229/ED) HIGHEST RN 139311-38-9
=> s salmeterol/cn
      1 SALMETEROL/CN
1.6
=> d
L6
     ANSWER 1 OF 1 COPYRIGHT 1992 ACS
    89365-50-4
RN
    1,3-Benzenedimethanol, 4-hydroxy-.alpha.1-[[[6-(4-
CN
    phenylbutoxy)hexyl]amino]methyl]-, (.+-.)- (9CI) (CA INDEX NAME)
CN
    Salmeterol
DR
    94749-03-8
MF
    C25 H37 N 04
CI
    COM
    BIOSIS, CA, CIN, MEDLINE, PHAR, WHO
L.C
STE 3:(+-)
                     OH
                   . CH .....CH2.....NH.....(CH2)6 ......O....(CH2)4.
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C: . C. : C

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1218 REFERENCES IN FILE CA (1967 TO DATE)

L8

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=> fil ca FILE 'CA' ENTERED AT 12:52:30 ON 06 MAR 92 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 1992 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1967 - 21 FEB 92 (920221/ED) VOL 116 ISS 08. For OFFLINE Prints or Displays, use the ABS or ALL formats to obtain abstract graphic structures. The AB format DOES NOT display structure diagrams.

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FILE 'REGISTRY' ENTERED AT 12:47:20 ON 06 MAR 92
               E FLUTICASONE/CN
L1
              1 S E3
L2
              1 S E4
     FILE 'REGISTRY' ENTERED AT 12:48:29 ON D6 MAR 92
              1 S E5
L3
     FILE 'CA' ENTERED AT 12:49:40 ON 06 MAR 92
              5 S (FLUTICASONE#/IA OR L1 OR L2 OR L3)
L4
              3 S L4 AND (ASTHMA? OR INHAL? OR DOSE# OR AEROSOL?)/IA
L5
    FILE 'CA' ENTERED AT 12:51:09 ON 06 MAR 92
     FILE 'REGISTRY' ENTERED AT 12:51:12 ON D6 MAR 92
              1 S SALMETEROL/CN
L6
L7
              O S SALBUTANOL/CN
              1 S SALBUTAMOL/CN
L8
                                                    LL 5 CITE
     FILE 'CA' ENTERED AT 12:52:30 ON 06 MAR 92
             3 S L4 AND (SALMETEROL?/IA OR L6)
L9
              2 S L4 AND (SALBUTAMOL?/IA OR L8)
L10
=> d 14 1-5 all;d 15 1-3;d 19 1-3;d 110 1-2
L4
     ANSWER 1 OF 5 COPYRIGHT 1992 ACS
AN
     CA115(18):189788v
TI
     Hydrofluorocarbon propellants for pharmaceutical aerosols
     Steele, Gerald; Somani, Asit; Lim, Joseph Geok Paan
AU
CS
     Fisons PLC
LO
    UK
SO
     PCT Int. Appl., 18 pp.
     WD 9111173 A1 8 Aug 1991
PI
     W: CA, JP, US
DS
     RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
     WO 91-GB133 30 Jan 1991
AΙ
PRAI GB 90-2351 2 Feb 1990
     GB 90-23655 31 Oct 1990
     GB 90-26476 5 Dec 1990
IC
     ICM A61K009-12
     ICS A61K009-72
SC
     63-6 (Pharmaceuticals)
DT
     Р
     PIXXD2
co
PY
     1991
L.A
     A pressurized aerosol compn. comprises a liquefied hydrofluorocarbon
AB
     propellant contg. substantially no nonhydrofluorocarbon solvent
     having dispersed therein a medicament and a fluorinated surfactant.
     The propellants are substantially taste- and odor-free and have
     suitable vapor pressures for the administration of medicaments by
     inhalation, yet are environmentally safe and acceptable. Thus, a
     compn. contg. nedocromil Na 0.200, FC 431 (fluorinated acrylic
     polymer) 0.061, and CF3CFH2 11.979 g was filled into Al aerosol
ΚW
     fluoro hydrocarbon propellant drug aerosol; nedocromil
     tetrachloroethane propellant aerosol
IT
     Bronchodilators
        (aerosol of, hydrofluorocarbon propellants for)
IT
     Pharmaceutical dosage forms
        (aerosols, inhalants, hydrofluorocarbon propellants in)
IT
     Hydrocarbons, biological studies
        (fluoro, propellant for pharmaceutical aerosols)
IT
     51-55-8, Atropine, biological studies 1944-12-3, Fenoterol
```

```
Fenoterol 15826-37-6, Sodium cromoglycate 18559-94-9, Salbutamol
     22254-24-6, Ipratropium bromide 23031-25-6, Terbutaline
     38677-81-5, Pirbuterol
                           51022-70-9, Salbutamol sulfate
     54063-54-6, Reproterol 69049-74-7, Nedocromil sodium 73573-87-2
     85197-77-9, Tipredane 89365-50-4 ***90566-53-3***
       (aerosol of, hydrofluorocarbon propellants for)
    75-37-6, 1,1-Difluoroethane 431-89-0
     1,1,1,2-Tetrafluoroethane
     . (propellant for pharmaceutical aerosols)
     11114-17-3, FC 430 12707-52-7, FC 431 25322-68-3, Polyethylene
            106392-12-5, Poloxamer
     glycol
        (surfactant for pharmaceutical aerosols)
    ANSWER 2 OF 5 COPYRIGHT 1992 ACS
    CA115(14):142260b
    Pharmaceutical inhalants containing a bronchodilator and a steroidal
    anti-inflammatory agent
    Palmer, James Barry Douglas
    Glaxo Group Ltd.
    UK
    Eur. Pat. Appl., 8 pp.
    EP 416951 A1 13 Mar 1991
    R: AT, DE, DK, ES, GR, LU, NL, SE
    EP 90-309846 7 Sep 1990
PRAI GB 89-20392 8 Sep 1989
     GB 89-23644 20 Oct 1989
    ICM A61KD31-57
ICI A61KD31-57, A61KD31-135
    63-6 (Pharmaceuticals)
    EPXXDM
    1991
    Eng
     Pharmaceutical compons, for treatment of respiratory disorders
     comprise effective amts. of salmeterol (and/or a physiol. acceptable
     salt thereof) and fluticasone propionate for simultaneous,
     sequential, or sep. administration by inhalation. The compn.
     permits the establishment of a twice daily dosing regimen and shows
     greater efficiency and longer dunation of bronchodilating activity
     than previously known combinations. Thus, a metered dose inhaler
     contained salmeterol 1-hydroxy-2-naphthoate 25.0, fluticasone
     propionate 25.0, stabilizer 5.0 .mu.g, CCl3F 23.70, and CCl2F2 61.25
     mg per actuation.
     respiratory disease salmeterol fluticasone inhalant
     Respiratory tract
        (disease, treatment of, by inhalation of salmeterol and
        fluticasone propionate combination)
     Pharmaceutical dosage forms
        (inhalants, of salmeterol and fluticasone propionate combination,
        for respiratory disorder treatment)
    Pharmaceutical dosage forms
        (powders, inhalants, of salmeterol and fluticasone propionate
        combination, for respiratory disorder treatment)
     136112-01-1
                  ***136112-02-2***
        (pharmaceutical inhalants contg., for respiratory disorder
        treatment)
    ANSWER 3 OF 5 COPYRIGHT 1992 ACS
     CA114(20):192593n
    Nonphospholipid pharmaceutical liposomes
     Radhakrishnan, Ramachandhan
    Liposome Technology, Inc.
     USA
     PCT Int. Appl., 96 pp.
     WO 9006775 A1 28 Jun 1990
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(P) Light Line (Ny
     RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE
ΑI
    WD 89-US5525 6 Dec 1989
PRAI US 88-284158 14 Dec 1988
    US 88-284216 14 Dec 1988
     A61K043-00; A61K049-00; A61K037-22
IC
SC
     63-6 (Pharmaceuticals)
SX
DT
    Р
     PIXXD2
\infty
PY
     1990
LA
     Eng
AB
     A nonconventional liposome compn. consisting of nonphospholipid
     lipids, esp. cholesterol and cholesterol ester salts, are used for
     encapsulation of drugs. They are useful for sustained release of
     steroids, and are suitable for treatment of inflammatory, arthritic,
     rheumatoid diseases, etc., esp. as aerosols for interstitial lung
     disease. Beclomethasone dipropionate (I) 10 was incorporated into
     liposomes prepd. with Na cholesterol sulfate 50 and cholesterol 40
     mol %. Sustained release of I was obsd. in rats following
     intratracheal administration, in contrast to liposomes formulated
     with phosphatidylcholine and cholesterol.
KW
     nonphospholipid sustained release liposome pharmaceutical;
     interstitial lung disease liposome aerosol; steroid nonphospholipid
     sustained release liposome
IT
    Micelles
        (nonphospholipid pharmaceutical)
IT
     Lipids, biological studies
        (nonphospholipid, phanmaceutical liposomes of)
IT
     Allergy inhibitors
     Neoplasm inhibitors
     Steroids, biological studies
        (nonphosppholipid liposomes contg.)
ŢΤ
     Interferons
     Vaccines
        (pharmaceutical liposomes contg. cholesterol and salt of
        cholesterol ester and)
IT
     Gonadotropins
        (pharmaceutical liposomes contg. cholesterol and salt of
        cholesterol esterand)
IT
     Lung, disease or disorder
     Skin, disease or disorder
        (treatment of, nonphospholipid pharmaceutical liposomes for)
IT
     Haemophilus influenzae
     Streptococcus pneumoniae
        (vaccines, pharmaceutical liposomes contg. cholesterol and salt
        of cholesterol ester and)
ŢΤ
     Pharmaceutical dosage forms
        (aerosols, liposomes, nonphospholipid liposomes in)
IT
     Inflammation inhibitors
        (antianthritics, nonphosppholipid liposomes contg.)
IT
     Inflammation inhibitors
        (antirheumatics, nonphosppholipid liposomes contg.)
IT
     Virus, animal
        (human immunodeficiency, vaccines, pharmaceutical liposomes
        contg. cholesterol and salt of cholesterol ester and)
IT
     Lymphokines and Cytokines
        (interleukin 2, pharmaceutical liposomes contg. cholesterol and
        salt of cholesterol ester and)
IT
     Lung, disease or disorder
        (interstitial, treatment of, nonphospholipid pharmaceutical
        liposomes for)
IT
     Pharmaceutical dosage forms
        (liposomes, cholesterol and cholesterol ester salts in)
IT
     Pharmaceutical dosage forms
        (liposomes, topical, nonphospholipid liposomes in)
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(monoclonal, pharmaceutical liposomes contg. cholesterol and salt of cholesterol ester and) IT Virus, animal (respiratory syncytial, vaccines, pharmaceutical liposomes contg. cholesterol and salt of cholesterol ester and) IT Globulins, biological studies (.gamma.-, pharmaceutical liposomes contg. cholesterol and salt of cholesterol ester and) 57-88-50, Cholesterol, esters, salts 2864-50-8 IT 6614-96-6 24352-55-4 99523-97-4 107745-49-3 107745-53-9 133058-04-5 133161-25-8 133161-26-9 133352-85-9 133352-86-0 133058-05-6 133442-37-2 133442-38-3 133442-36-1 (pharmaceutical liposomes contg. cholesterol and) 50-02-2, Dexamethasone 50-07-7, Mitomycin 50-18-0, IT Cyclophosphamide 50-23-7, Hydrocontisone 50-24-8, Prednisolone 51-41-2, Nonepinephrine 51-43-4, Adrenaline 51-61-6, Dopamine, biological studies 51-64-9, Dextroamphetamine 52-39-1, Aldosterone 52-53-9, Verapamil 52-88-0, Atropine methyl nitrate 53-86-5, Cortisone 53-33-8, Paramethasone 53-03-2, Prednisone 57-22-7 57-42-1, Demenol 58-55-9, Theophylline, biological studies 58-73-1, Diphenhydramine 59-05-2, Methotrexate 60-54-8 61-33-6, biological studies 64-85-7, Deoxycontone 68-88-20, Hydroxyzine, derivs. 71-68-1, Dilaudid 76-41-5, Oxymorphone 83-43-2, Methylprednisolone 86-54-4, Apresoline 91-81-6, Pyribenzamine 100-33-4, Pentamidine 113-92-8, Chlorpheniramine 114-07-8, Erythromycin 124-94-7, Triamcinolone 127-31-1, 152-97-6 153-61-7, Cephalothin 299-42-3, Fluorocontisone 317-34-0 356-12-7, Fluocinonide Ephedrine 378-44-9, 426-13-1, Fluorometholone 446-86-6, Azathioprine Betamethasone 638-94-8, Desonide 645-05-6, Altretamine 671-16-9, Procarbazine 768-94-5, Amantadine 807-38-5, Fluocinolone 1110-40-3, 1247-42-3, Meprednisone 1397-89-3, Amphotericin B Contivazol 1403-66-3, Gentamycin 1404-90-6, Vancomycin 1524-88-5, Flurandrenolone 2135-17-3 2607-06-9 2668-66-8, Medrysone 3093-35-4, Halcinonide 3385-03-3, Flunisolide 3693-38-7, Fluctorolone 3778-73-2 4419-39-0, Bectomethasone 4697-36-3, Carbenicillin 5251-34-3, Clopredhol 5534-09-8, Beclomethasone dipropionate 5874-97-5, Metaproterenol sulfate 7683-59-2, Isoproterenol 9002-60-2, ACTH, biological studies 9004-10-8, Insulin, biological studies 11056-06-7, Bleomycin 13010-47-4. 15663-27-1, Cisplatin 15826-37-6, Cromolyn sodium 18559-94-9, Albuterol 20830-81-3, Daunorubicin 22254-24-6. Ipratropium bromide 22916-47-8, Miconazole 23031-25-6, Terbutaline 23214-92-8 25953-19-9, Cefazolin 29122-68-7, Atenolol | 30392-40-6, Bitolterol 30516-87-1 32986-56-4, Tobramycin 33419-42-0 35607-66-0, Cefoxitin 36791-04-5 37517-28-5, Amikacin 38677-81-5, Pirbuterol 50370-12-2, Cefadroxil 51333-22-3, Budesonide 53643-48-4, Vindesine 59277-89-3, Acyclovin 61477-96-1, Piperacillin 63527-52-6, Cefotaxime 64952-97-2, Moxalactam Captopril 69049-73-6, Nedocromil 72301-79-2, Enviroxime

89365-50-4, Salmeterol ***90566-53-3***

(pharmaceutical liposomes contg. cholesterol and salt of cholesterol esterand)

82410-32-0, Ganciclovin

IT 57-88-5, Cholesterol, biological studies (pharmaceutical liposomes contg. cholesterol ester salts and)

75847-73-3, Enalapril

```
L4 ANSWER 4 OF 5 COPYRIGHT 1992 ACS
```

AN CA110(20):179552w

Procaterol

ro nk

TI Formulations containing fluticasone propionate for treatment of bowel deseases

AU Richards, David Anthony

CS Glaxo Group Ltd.

```
GB 2199747 A1 20 Jul 1988
PΙ
     GB 87-29756 21 Dec 1987
ΑI
PRAI GB 86-30913 24 Dec 1986
     ICM A61KD31-56
     ICS A61K009-28; A61K009-48
SC
     63-6 (Pharmaceuticals)
SX
     2
DT
     Р
     BAXXDU
\infty
PY
     1988
LA
     Eng
     A pharmaceutical for the treatment of bowel diseases which respond
AB
     to treatment with glucocorticoid steroids contains fluticasone
     propionate (I); the pharmaceutical may be administered by oral,
     stomal, or rectal routes. A tablet contq. micronized I 5.0, lactose
     92.5, croscarmellose Na 2.0, and Mg stearate 0.5 mg was coated with
     5 mg of a film coating contg. Eudragit L300 50.0, propylene glycol
     1.5, talc 3.5, silicone antifoam emulsion 0.1 wt./wt., and H2O q.s.
     to 100 wt./wt.
ΚW
     fluticasone enteric coated tablet; Crohn's disease fluticasone
     propionate tablet; inflammatory bowel disease fluticasone tablet;
     celiac disease fluticasone tablet; ulcerative colitis fluticasone
     tablet
IT
     Celiac disease
        (treatment of, fluticasone propionate-contg. pharmaceuticals for)
IT
     Intestine, disease or disorder
        (Crohn's, treatment of, fluticasone propionate-contg.
        pharmaceuticals for)
     Pharmaceutical dosage forms
IT
        (delayed-release, contq. fluticasone propionate for treatment of
        bowel diseases)
IT
     Intestine, disease or disorder
        (inflammatory, treatment of, fluticasone propionate-contg.
        pharmaceuticals for)
IT
     Pharmaceutical dosage forms
        (slow-release, contg. fluticasone propionate for treatment of
        bowel diseases)
IT
     Pharmaceutical dosage forms
        (tablets, enteric-coated, contg. fluticasone propionate for
        treatment of bowel diseases)
     Intestine, disease or disorder
IT
        (ulcerative colitis, treatment of, fluticasone propionate-contg.
        pharmaceuticals for)
     ***80474-14-2*** , Fluticasone propionate
IT
        (pharmaceuticals contg., for treatment of inflammatory bowel
        diseases)
     ANSWER 5 OF 5 COPYRIGHT 1992 ACS
L.4
AN
     CA96(19):163044p
     Androstane carbothioates
TI
CS
     Glaxo Group Ltd.
LO
     UK
SO
     Neth. Appl., 63 pp.
PI
     NL 8100707 A 16 Sep 1981
AI
     NL 81-707 13 Feb 1981
PRAI GB 80-5174 15 Feb 1980
     GB 80-13339 23 Apr 1980
IC
     C07J003-00; A61K031-56
SC
     32-4 (Steroids)
DT
     NAXXAN
00
PY
     1981
L.A
GΪ
     Diagram(s) available in offline prints and/or printed CA Issue.
     Antiinflammatory (no data) androstanes I (R = CH2F, CH2Cl, CH2Br,
AB
```

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H: R2R7 = CH2; R3 = H, C1, F; R4 = H, F; R5 = R6 = H; R5R6 = bond)
     were prepd. Thus, I (R = CH2Cl, R1 = COEt, R2 = .beta.-Me, R3 = F,
     R4 = H, R5R6 = bond, R7 = H) was prepd. by treating the
     corresponding 17-carboxylic acid with Me2NCSCl, hydrolyzing to the
     17-thiocarboxylic acid, and esterifying with BrCH2C1.
     halomethyl androstanecarbothicate; antiinflammatory halomethyl
ΚW
     androstanecarbothicate
     Inflammation inhibitors and Antiarthritics
IT
        (halomethyl androstanecarbothicates)
IT
                 37927-29-0
     28416-82-2
        (acylation of)
IT
     53-34-9
             338-95-4
                         2282-51-1
        (oxidn. of)
IT
     80473-87-6P
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     Nonphospholipid pharmaceutical liposomes
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